MISHCHENKO, Georgiy Leonidovich; NEYMAN, Aleksandr Frantsevich; KHAS'YAN, T.I., red.; TEUKHLO, I.L., red.

[Technology of the transparent finishing of panel elements of furniture] Tekhnologiia prozrachnoi oldelki shchitovykh elementov mebeli. Moskva, Izd-vo "Lernaia promyshlennost"," 1964. 242 p. (EIRA 18:1)

KHASYMSKI, M.; KEL'M, M. [Kelm, M.]; SHIDLOVSKAYA, S. [Szydlowska, S.];
GORAK, B. [Horak, B.]; RIKHTER, V.

From public reports of the heads of the delegations of socialist countries. Tekh. est 2 no.8:7-11 Ag 165. (MIRA 18:9)

1. Direktor TSentra promyshlennoy estetiki, khudozhestvennogo proyektirovaniya i konstruirovaniya Narodnoy Respubliki Bolgarii (for Khasymski). 2. Predsedatel' Soveta po khudozhestvennomu konstruirovaniya Germanskoy Demokraticheskoy Respubliki (for Kel'm). 3. General'nyy sekretar' Soveta po tekhnicheskoy estetike pri Predsedatele Soveta Ministrov Pol'skoy Narodnoy Respubliki (for Shidlovskaya). 4. Zamestitel' ministra promyshlennosti tovarov shirokogo potrehleniya, zamestitel' predsedatelya Soveta po tekhnicheskoy estetike Chekhoslovatskoy Sotsialisticheskoy Respubliki (for Gorak). 5. Direktor TSentra khudozhestvennogo konstruirovaniya v Zagrebe Sotsialisticheskoy Federativnoy Respubliki Yugoslavii (for Rekhter).

ACC NR: AP6027295

SOURCE CODE: UR/0133/66/000/008/0738/0741

AUTHOR: Tsvetkova, V. K.; Khatalakh, R. F.

ORG: "Elektrostal'" Plant (Zavod "Elektrostal'")

TITLE: Effect which the addition of molybdenum, tungsten and other elements has on the properties and structure of heat resistant nickel alloys in the cast state

SOURCE: Stal', no. 8, 1966, 738-741

TOPIC TAGS: nickel alloy, metal crystallization, mechanical property, molybdenum containing alloy, tungsten containing alloy

ABSTRACT: The authors study the effect of introducing molybdenum, tungsten and other elements on the properties and structure of 7 compositions of KhN66VMTYu heat resistant nickel alloys in the cast state. It was found that liquidus and solidus temperatures rise as tungsten content is increased in these alloys. Increasing molybdenum content from 5 to 10% has no affect on the critical crystallization point of KhN66VMTYu alloy. The use of iron instead of nickel lowers the liquidus temperature and reduces the crystallization interval. Increasing the degree of alloying for this type of alloy forms internal cracks throughout the bottom part of the ingots during cooling in air. Impact strength and mechanical properties of the cast structure are reduced during hot plastic deformation if the weight of the ingots is increased from

Card 1/2

UDC: 669.14.018.45

ACC NR: AP6027295

APPROVED FOR RELEASE: 09/17/2001 the CIA-RDPS6ng0513R060721910013210 to 500 kg. However, regardless of ingot size, the impact strength approaches that taken from the acicular crystal zone is higher than that of specimens from the uniaxtaken from the acicular crystal zone is higher than that of specimens from the uniaxtaken from the acicular crystal zone that ial crystal zone by a factor of 1.5-2. The maximum impact strength approaches that ial crystal zone by a factor of 1.5-2. The maximum impact strength acicular crystals. The breakobserved in specimens of deformed metal cut along the acicular crystal zones behave simiing strength and ductility characteristics of the various crystal zones behave simiing strength and ductility characteristics of the various crystal zones behave similarly as the temperature in raised from 800 to 1250°C: the breaking strength delarly as the temperature in raised from 800 to 1250°C: the breaking strength delarly as the temperature in raised from 800 to 1250°C: the breaking strength delarly as the temperature in raised from 800 to 1250°C: the breaking strength delarly as the temperature in raised from 800 to 1250°C: the breaking strength delarly as the temperature in raised from 800 to 1250°C:

SUB CODE: 11/ SUBM DATE: None/ ORIG REF: 002

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L 08h2h-67 EWT(m)/EWP(w)/EWP(t)/ETI LJP(c) JD/HW/JT-2/GD SOURCE CODE: UR/0000/66 SOURCE CODE: UR/0000/66/000/000/0205/0208 ACC NR: AT6034457 Khatalakh, R. F.; Krasnova, I. A.; Dubrovina, I. N.; Zimina, AUTHOR: 64 L. N.; Kosheleva, C. F. かり ORG: none 1311 16 TITLE: EP404 and EP454 economical heat-resistant alloys SOURCE: AN SSSR. Institut metallurgii. Svoystva i primeneniye zharoprochnykh splavov (Properties and application of heat resistant alloys). Moscow, Izd-vo Nauka, 1966, 205-208 TOPIC TAGS: iron nickel alloy, aluminum containing alloy, high temperature alloy, molybdenum containing alloy, tungsten containing alloy, chromium containing alloy/EP404 alloy, EP454 alloy ABSTRACT: Two new EP404 and EP454 nickel-iron base wrought heat-resistant alloys have been developed as less expensive substitutes for E1867 and E1827 nickel-base alloys intended for short-time operation under high stresses. The new alloys are available in the form of forgings and rolled stock. Both can be hot worked in the 950-1200C range compared with the 1050-1150C range for EI827 and EI867 alloys. The heat treatment of EP404 and EP454 alloys includes annealing for 6 hr at 1175-1200 and 1150-1175C, respectively, followed by air cooling and Card 1/3

L 08424-67

ACC NR: AT6034457

9

The heat-treated alloys have high aging at4750-8000 for 10 hr. strength and ductility in the 20-800C range comparable to those of E1827 and E1867 alloys. EP404 alloy has a high yield strength (80 kg/mm2) at 20-800C and EP454 alloy has an impact strength of about in the 930-1200C range. Both alloys soften 12-19 kg·m/cm² appreciably at temperatures above 800C. The rupture strength of EP404 and EP454 alloys at 750C was practically the same as that of EI867 and E1827 alloys. The 100-hr rupture strength of EP454 alloy at 8500 was 20 kg/mm² and the 200-hr rupture strength at 8000 was 25 kg/mm². EP404 alloy has higher characteristics of heat resistance [unspecified] than EP454 alloy. Prolonged aging of EP404 alloy at 800C resulted in the precipitation of the brittle ε-phase (an Fe₇W₆-type phase containing about, wt%, 14 Ni, 10 Cr, 11 Fe, 37 Mo, 28 W). This can be avoided by annealing at 1000C and subsequent aging. Stressless aging of EP404 alloy at 750C brought about no changes in the structure or hardness. However, aging under a stress of 50 kg/mm² for 0.5—10 hr caused intensive precipitation of the Y'-phase (Ni3Al) with no c-phase precipitation Aging of EP454 alloy at 750 and 8000 with or without stress changed only slightly the alloy hardness. No structural change was observed in EP404and EP454 alloys with aging at 750C for 100 hr, indicating the structure stability of the alloys. V. V. Topilin, T. G. Pegova, V. M. Romashov, A. P. Boyarinov, V. K. Tsvetkova and N. D. Orekhov participated

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	INVENTOR: Estulin, G. V.; Zimina, L. W.; Kosheleva, G. F.; Topilin, V. V.; Bo A. P. Tavetkova, V. K.; Ehatalakh, R. F.; Shnyakin, W. S.; Polyakov, K. H.;	el'nikov,		ł
	M. V. Belyakova, K. A.; Il'In, A. A.; Horozov, B. S.; Bogdanovskiy, S. P.; Khrakovskava, P. S.	15		
	ORG: none . Yes	nounced by		
	Central Scientific Research Institute of Ferrous Ketallurgy im. Bardin (Tsent	ralinys		
	nauchno-issledovatel'skly institut chernoy metallurgii); s-d "Elektrostal'"	m. I. F.	: ♦	ì
	Tevosyen		1	
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 83		- -	·
•	TOPIC TAGE: alloy, nickel alloy, chromium containing alloy, molybdenum cont	-ining	1	ı
	alloy, tungsten containing alloy, titanium containing alloy, aluminum contain	sing alloy.	1	1
	carbon containing alloy, beryllium containing alloy, cerium containing alloy	, , ,	1	,
	carbon containing alloy, peryllium containing alloy, cerium containing alloy	`		,
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	ABSTRACT: This Author Certificate introduces a wrought, hest-resistant, nice alloy with improved mechanical properties and weldability." The alloy contain 20% chronium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% alumin	kel-base		
	carbon containing alloy, peryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nicl alloy with improved mechanical properties and weldability." The alloy contain 20% chromium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% alumi 0.1% max carbod, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% m	kel-base		,
	carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a vrought, heat-resistant, niclealloy with improved mechanical properties and veldability. The alloy contain 20% chronium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% alumin 0.1% max carbod, 6% mak iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% maganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium.	kel-base ns 17 to num, ex man-		
	carbon containing alloy, peryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a wrought, heat-resistant, nicl alloy with improved mechanical properties and weldability." The alloy contain 20% chromium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% alumi 0.1% max carbod, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% m	kel-base ns 17 to num, ex man-		,
	carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a vrought, heat-resistant, niclealloy with improved mechanical properties and veldability. The alloy contain 20% chronium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% alumin 0.1% max carbod, 6% mak iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% maganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium.	kel-base ns 17 to num, ex man-		
	Carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a vrought, hest-registant, nicl alloy with improved mechanical properties and veldability. The alloy contain 20% chromium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% alumi 0.1% max carbod, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% m ganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium; SUB CODE: New SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD P	kel-base ns 17 to num, ex man-		
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	Carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a vrought, hest-registant, nicl alloy with improved mechanical properties and veldability. The alloy contain 20% chromium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% alumi 0.1% max carbod, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% m ganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium; SUB CODE: New SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD P	kel-base ns 17 to num, ex man-		
	Carbon containing alloy, beryllium containing alloy, cerium containing alloy ABSTRACT: This Author Certificate introduces a vrought, hest-registant, nicl alloy with improved mechanical properties and veldability. The alloy contain 20% chromium, 8-12% molybdenum, 0-6% tungsten, 2-3% titanium, 1-2% alumi 0.1% max carbod, 6% max iron, 0.01% max sulfur, 0.015 max phosphorus, 0.5% m ganese, 0.6% max silicon, 0.01% max boron, and 0.02% max cerium; SUB CODE: New SUBM DATE: 05Feb64/ ORIG REF: 000/ OTH REF: 000/ ATD P	kel-base ns 17 to num, ex man-		

KHATAMÆKOV, A.Yu.

Some results of the study of the formation of the local structures of the Muharek group of fields. Uzb. geol. zhur. 9 no.1164-72 '65.
(MIR 18:5)

1. Institut geologii i razrabotki neftanykh i gazovykh mesterozhdeniy Gosudarstvennogo geologicheshego komiteta field.

KHATAMBEKOV, A. Yu.

Geology of Mesozoic sediments in Kagan structures of the Bukha-ra-Khiva petroleum and gas province. Trudy MINKHiGP no.27:266-280 '60. (MIRA 13:9)

(Amu Darya Valley-Geology)

LARIN, V.I., KHATAMBEKOV, A.Yu.

Conditions governing the formation of oil and gas pools in fields of the Mubarek group (western Uzbekistan). Izv.vys. ucheb.zav.; neft! i gaz 5 no.419-13 *62. (MIRA 16:1)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M.Gubkina. (Uzbekistan-Petroleum geology)

RHATAMEEKOV, A.Yu.

Boundary of the Upper Jurassic and Lower Cretaceous sedirents in western Uzbekistan. Trudy MINKHiGP no.43:162-167 '63.

(MIRA 17:4)

AT6025884 SOURCE CODE: UR/0000/65/000/000/0118/0127 ACC NRI AUTHOR: Khatamkulov, G. ORG: none TITLE: Objective analysis of the relative geopotential field above oceans SOURCE: AN UzSSR. Institut matematiki. Dinamicheskaya meteorologiya (Dynamic meteorology). Tashkent, Izd-vo Nauka UzSSR, 1965, 118-127 TOPIC TAGS: meteorology, meteorological chart, meteorological parameters, correlation function, autocorrelation function, ~~ ABSTRACT: A method for analysis of meteorological fields in regions with sparse networks of meteorological stations is described. The method can be used for ocean regions and is based on the fact that there exists a direct relationship between relative heights of isobaric surfaces and their average temperatures. Consequently, there is a relationship between heights of isobaric surfaces and temperatures of the gound and sea surface. Autocorrelation functions for the H 500 layer and temperature of the earth's surface and their mutual correlation function are found from data collected by 60 weather stations located in continental Europe and the Soviet Union. Orig. art. has: 24 formulas and 4 figures. SUB CODE: 04/ SUBM DATE: 14Dec65/

KHATAMOV, A. A.

KHATAMOV, A. A. -- The Physical Conditions of the Ground Layer of the Atmosphere and Their Effect on the Rate of Evaporation, Based on Data from Various Methods of Measuring Evaporation. Moscow, 1955. (Dissertation for the Degree of Candidate in Physicomathematical Sciences.) Min Higher Education USSR.

50.: Knizhnaya Letopis', No 7, 1956.

KHATAMOV, A.A.

Turbulence factor in the case of unstable stratification of the surface layer. Izv. AN Uz. SSSR. Ser. fiz. mat.nauk 6 no.2:21-27 '62. (MIRA 15:9)

1. Andizhanskiy podagogicheskiy gosudarstvennyy institut. (Atmospheric turbulence)

KHATAMZADE, M. Ya.

Treatment of a peptic ulcer with bicalin, Azerb. med. zhur.
no.9236-39 S 162 (MIRA 18:1)

DYUKER, Al'ber, prof.astronomii; ŒTIEND, Kennet; KHAFEZ, Mustafa
Mukhammed, doktor; KINDSEY, prof.; KHATANAKA, Takeo, astronom,
prof.; ZENGER, Eugen, prof., spetsialist v oblasti raketnoy
tekhniki (Federativnaya Respublika Germanii); LOVELL, B., prof.;
NEVIN, T., prof. (Irlandiya); KHADZHIOLOV, A., akademik
(Bolgariya); LUNTS, M., prof.; MATOVICH, V.; UEYL, L., doktor,
spetialist po kosmologii (SShA); VAYD'YA, V.M., doktor; CHEMBERIEN, D.;
CHZHAO TSZYU-CHZHAN [Caho Chiu-chang]; NAGATA, I.

World scientists about the flight of 4. Nikolaev and P. Popovich. Av.1 kosm. 45 no.10:31-33 62. (MIRA 15:10)

1. Direktor Frantsuzskogo obshchestva kibernetiki (for Dyuker).
2. Vitse-prezident Obshchestva mezhplanetnykh soobshcheniy,
Angliya (for Geltend). 3. General'nyy sekretar' nauchnoissledovatel'skogo tsentra Ob"yedinennoy Arabskoy Respubliki
(for Khafez). 4. Chlen gosudarstvennogo komiteta po atomnoy
energii, Gana (for Lindsey). 5. Tokiyskiy universitet (for
Khatanaka). 6. Direktor radioastronomicheskoy observatorii
Dzhodrell-benk, Velikobritaniya (for Lovell).

(Continued on next card)

DYUKER, Aliber, prof.astronomii-(continued) Card 2.

7. Predsedatel astronavticheskogo obshchestva, Pol'sha (for Lunts). 8. Sekretar yugoslavskogo astronomicheskogo i raketnogo obshchestva (for Matovich). 9. Zamestitel direktora Natsicnal noy fizicheskoy laboratorii, Indiya (for Vavd'ya). 10. Predstavitel Kh'yustonskogo tsenta po sozdaniyu kosmicheskogo korablya s ekipazhem, SShA (for Chemberlen). 11. Direktor Instituta geofiziki Kitayskaya Narodnaya Respublika (for CHZHAO TSZYU-CHZHAN). 12. Direktor Instituta radiovoln, Yaponiya (for Nagata). (Space flight)

ZAKHAROVA, M.I.; KHATANOVA, N.A.

Investigating structural changes during 7 (7+4) phase transformations in iron nickel alloys. Issl. po zharopr. splav. 3:178-182 '58.

(MIRA 11:11)

(Iron-nickel alloys-Metallorgraphy) (Phase rule and equilibrium)

AUTHORS: Zakharova, M.I. and Khatanova, N.A.

70-3-3-28/36

TITLE:

The Mutual Orientation of Crystals of the α and σ Phases on the Decay of the Solid Solution in Alloys of Iron and Vanadium (Vzaimnaya oriyentirovka kristallov α -i σ -faz pri raspade tverdogo rastvora v splavakh zheleza s

vanadiyem)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 3, pp 376 - 378 (USSR)

ABSTRACT: Fe-V alloys at temperatures above 1 234 °C form a solid solution α with a cubic face-centred lattice. Below this temperature the solid solution decays and a σ phase with the β - U structure having 30 atoms per unit cell separates. An alloy of 26% V in Fe was annealed at 975 °C and decayed to the two phases. Monocrystalline specimens, prepared by heating for 60 hours at 1 350 °C and quenching in water were used for X-ray examination. Specimens of 1 cm dia. were thus converted to single crystals and were cut up for examination. Laue photographs were taken after different annealing times at 975 °C. For times of 1-30 hours no changes were evident. After 40 hours spots showed that the nuclei of the σ phase were oriented parallel to the 001 plane of the α phase. After Card 1/2 155 hours annealing the orientation was seen to be such that

The Mutual Orientation of Crystals of the α and σ Phases on the Decay of the Solid Solution in Alloys of Iron and Vanadium

the fourfold axes of the two phases were parallel. axes of the two phases are also parallel. Microscopic examination of polycrystalline specimens after etching showed rectangular figures which confirm this. There are 5 figures and 1 German and 1 English references.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni

M.V. Lomonosov)

SUBMITTED:

April 22, 1957

Card 2/2

CIA-RDP86-00513R000721910013-7" APPROVED FOR RELEASE: 09/17/2001

AUTHORS: Zakharova, M. I. and Khatanova, N.A. 70-3-3-29/36

TITLE: The Substructure of Crystals of the γ Solid Solution of Nickel in Iron During Polymorphic Transformation (Sub-

struktura kristallov Y-tverdogo rastvora nikelya v zheleze

pri polimorfnom prevrashchenii)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 3, pp 378 - 381 (USSR)

ABSTRACT: The investigation of the transformation γ γ α in an alloy of iron with 32% nickel by the methods of X-ray and microscopic analysis showed that the initial stage proceeds following the martensitic type of transformation scheme. In this the layers of the α-phase are oriented parallel to the lll plane of the γ-phase. Because of the low value of the elastic limit of the Fe-Ni alloys at 400°C, the coherence of the lattices of the γ- and α-phases is destroyed in the initial stages of the transformation and the further growth of the nuclei of the α-phase proceeds by diffusion. In the matrix round the nuclei a zone of plastic deformation is formed clearly distinguishable under microscopic investigation. There are 4 figures and 7 references, l of which is Soviet, l German and 5 English.

"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000721910013-7

70-3-3-29/36

The Substructure of Crystals of the γ Iron During Polymorphic Transformation Solid Solution of Nickel in

ASSOCIATION:

Mckovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

SUBMITTED:

March 22, 1957

Card 2/2

10

S0Y/126-6-3-12/32

AUTHORS: Zakharova, M. I., Ignatova, I. A. and Khatanova, H. A.

TITLE: Investigation of the Phase Transformation $\gamma \rightarrow (\gamma + \alpha)$ in Alloys of Iron with Nickel (Issledoven tye factorogo

prevrashcheniya $\gamma \rightarrow (\gamma + \alpha)$ v splavakh zheleza s nikelem)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 3, pp 475-479 (USSR)

ABSTRACT: The polymorphous transformations in alloys of iron with 30 and 32% Ni are investigated since in spite of the fact that much work has been done on the problem of γ → (γ + α) transformations in Fe-Ni alloys (Ref 1), the extreme stability of the non-equilibrium state in these alloys has so far not been satisfactorily clarified. The alloys were produced from electrolytic iron and electrolytic nickel. After casting, the alloys were subjected to homogenization annealing at 1000°C for ten hours, then to heating for 18 hours at 600°C which was followed by quenching in water. The single crystals were produced by the method of recrystallisation at 1200°C; after continuous annealing for 60 hours, crystals of 20 nm² grew in 1 mm thick plates. The investigations were effected by X-ray and microscopic analysis of polycrystalline specimens and

SOV/126-6-3-12/32

Investigation of the Phase Transformations $\gamma \rightarrow (\gamma + \alpha)$ in Alloys of Iron with Nickel

> X-ray analysis of static single crystals. The process of polymorphous transformation was studied for isothermal heating at a temperature of 400°C; at this temperature a 32% Ni containing alloy in the equilibrium state should contain about 27% of the α -phase. For investigating the $\gamma \rightarrow (\gamma + \alpha)$ transformation by X-ray structural $\gamma \rightarrow (\gamma + \alpha)$ transformation analysis, powder was filed from the homogenized specimen which was heated at 600°C for 20 hours and then subjected to isothermal ennealing at 400°C. The X-ray patterns were photographed using iron radiation in cameras of 114 cm dia; the specimen dia, equalled 0.4 mm. It was established that at 400°C the transformation is very slow. Deformation of the alloys at room temperature does not only accelerate the process of γ to α transformation; deformation of an alloy after being subjected to martensite transformation at -196 C will accelerate also the reverse γ to α transformation. At temperatures above the martensitic point, the initial stage of the γ to α transformation proceeds

Card 2/3according to the relations governing the reconstruction of

Investigation of the Phase Transformation $\gamma \rightarrow (\gamma + \pi)$ in Alloys of Iron with Nickel

the lattice in the case of martensitic transformations. The forming inter-layer of the γ -phase is located parallel to the plane (lll) of the γ -phase. Apparently for a tempering temperature of 400°C the lattice coherence is disturbed in the initial stage of transformation, which brings about a braking of the transformation process. Further increase in the growth of the nuclei of the α -phase is by diffusion; deformation zones are formed in the matrix around the nuclei. There are 2 figures, 1 table and 4 references, 2 of which are Soviet, 2 English.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova (Moscow State University imeni

M. V. Lomonosov)
SUBMITTED: June 23, 1956 (initially), Feb.8, 1957 (after revision).

1. Iron-nickel alloys--Transformations 2. Iron-nickel alloys
--Stability 3. Iron-nickel alloys--Casting 4. Iron-nickel alloys

--Heat treatment 5. Iron-nickel alloys--X-ray analysis

Card 3/3

ZAKHAROVA, M.I.; KHATANOVA, M.A.

Investigation of structural changes in Fe-Ni alloys during the polymorphic (>> 1+0 transformation. lzv. AN SSSR. Ser. fiz. 22 no.10:173-176 0 '58. (MIRA 12:3)

1. Moskovskiy gosudarstvennyy universitete im. M.V. Lomonosova. (Iron-nickel alloys)

AUTHORS:

Zakharova, M. I., Ignatova, I. A., Semenova, L. A., Khatanova, N. A.

20-119-3-27/65

TITLE:

An Investigation of the Phase Composition of Iron-Vanadium and Iron-Chromium Alloys (Issledovaniye fazovogo sostava splavov zheleza, s vanadiyem i zheleza s khromom)

Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 3,

PERIODICAL:

pp. 498-500 (USSR)

ABSTRACT:

Though there is a domain of the o-phase in the state diagrams of the alloys in question which passes over into the domain of solid solutions of the α -phase at $> 1234^{\circ}C$ for Fe-V-alloys and at 820°C for Fe-Cr-alloys, these transformations are assumed to be more complicated, because these alloys are transformed rapidly in the single-phase region of the σ- as well as of the α-phase. Thus the brittleness occurs very obviously after annealing at 400-550°C in these alloys that belong to the single-phase region. The plasticity is here reduced to zero, by this their practical applicability is restricted. According to references 3 and 4 a solid solution rich in chromium is assumed to precipitate at low annealing temperatures. An

Card 1/4

An Investigation of the Phase COMPOSITION of ICIA-KUPSG-0051-3R000721910013

modification of the properties which does not correspond to the single-phase structure of the solid solution was observed also above the transformation temperature from σ- into the α-phase (ref. 6,7). It is difficult to be explained by the atomic regulation which is assumed at low as well as at high temperatures by several authors (ref 7). In the present paper the structure of the alloys in question was to be investigated after a heating between 1400 and 600°C with quenching in water. The investigation was carried out by means of X-ray diffraction methods in the polycrystal and by means of microscopical analysis. The alloys were homogenized after casting at 13000C from 20 to 100 hours and immediately afterwards quenched in water. Structure of the iron-vanadium-alloys. The radiographs of the powder obtained by means of a file were taken with a chromium radiation. After a homogenization at 130000 these alloys are (with a vanadium content of 28,5-74 %) not ringle-phase, but two-phase. It was proved microscopically that on a background of the crystals of the a-phase

Card 2/4

An Investigation of the Phase Composition of Iron-Venadium and Iron-Chromium Alloys

20-119-3-27/65

microscopical and radiographic investigation showed that the alloys with 35, 42 and 48 % Cr consist of the α - and β -phase crystals in the case of annealing at 1300°C. The amount of the β -phase decreases with dropping temperature (figure 1,2). In the chromium-iron-alloys with 35-48 % Cr the phase transformations consist of a polymorphous transformation of the σ - into the α -phase as well as of the $\alpha\text{--}$ into the $\beta\text{--}phase, exactly as it was the case with$ the above mentioned vanadium. There are 3 figures and 7 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED:

November 12, 1957, by A. A. Bochvar, Member, Academy of

Sciences, USSR

SUBMITTED:

November 12, 1957

Card 4/4

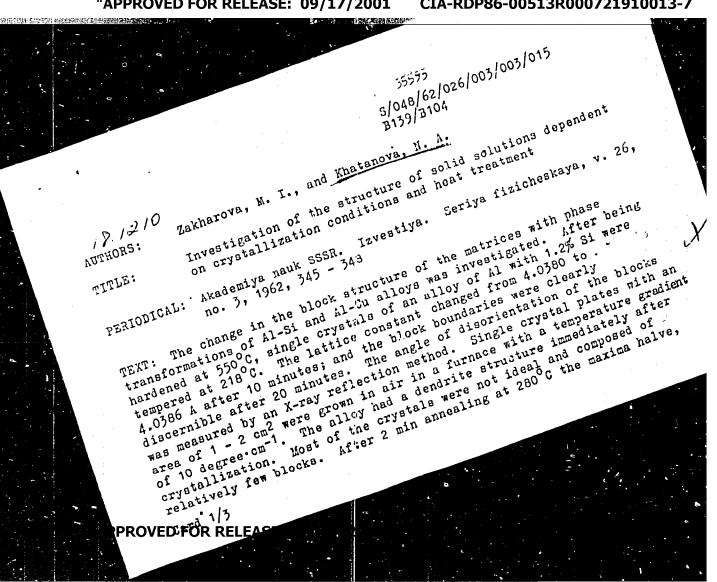
ZAKHAPPROVED FOR RELEASE: :09/17/2001 N.: CLA-RDP86-00513R000721910013

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Investigating phase transformations in iron-vanadium and ironchromium alloys. Issl.po sharopr.splav. 4:263-265 (MIRA 13:5)

(Phase rule and equilibrium) (Iron-vanadium alloys) (Iron-chronium alloys)

CIA-RDP86-00513R000721910013-7 "APPROVED FOR RELEASE: 09/17/2001



S/048/62/026/003/003/015 B139/B104

Investigation of the structure...

showing that the blocks are disorientated by 41. The disorientation after 5 min is 6'. After an annealing at 280°C for 10 min the blocks turn, and after 20 min the orientation of the blocks in a crystal increases. Consequently, the formation of the second phase from a solid solution of Si in Al causes a disorientation of the blocks. The structural changes are irreversible. Al alloys with 4 per cent by volume of Cu have a band structure under the same crystallization conditions, and the crystals consist of a multitude of minute blocks. After 20 min annealing at 218 the distance between some of the reflected maxima increases, while another group of maxima remains unchanged. After annealing times of 30 - 60 min the samples again show the same picture as immediately after quenching. Consequently, after the coherent bond between the newly formed material and the matrix has broken, the disorientated blocks return to their initial position. However, this elastic disorientation has a local nature and covers the total crystal volume non-uniformly. The degree of inhomogeneity is determined by the substructure of the initial crystal of the solid solution. There are 6 figures and 4 references: 3 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: A. Guinier, J. Tennevin, Acta crystallogr. 2, 133 (1949).

Card 2/3

s/659/62/008/000/002/028 1048/1248

Zakharova, M.I., Mogarycheva, I.B., and Khatanova, N.A.

Structure of the matrix during the initial stages of de-AUTHORS: TITLE:

composition of the solid solution

Akademiya nauk SSSR. Institut metalurgii, Issledovania SOURCE:

po zharoprochnym splavam. v.8. 1962. 27-31

TEXT: X-ray and microscopic examinations of various Al alloys and im steel during the initial stages of decomposition show that at 2180c of the Al-1.25% Si solid solution there is a generated stress not relieved by thermal relaxation, and the matrix is subject to plastic deformation. This is exhibited on the X-ray diagram by a steriem and fragmentation of the Laws maxima for the solid solution. asterism and fragmentation of the Laue maxima for the solid solution. The same alloy, annealed for 10 minutes at 218°C, shows slip ion. The same alloy, annealed for 10 minutes at 218°C, shows slip ion. bands under the microscope, and disintegration of monocrystals into smaller structural blocks. Two slip-band systems, intersecting with each other at a 700 angle are observed under certain conditions. Essentially the same microstructure is observed in an Al -

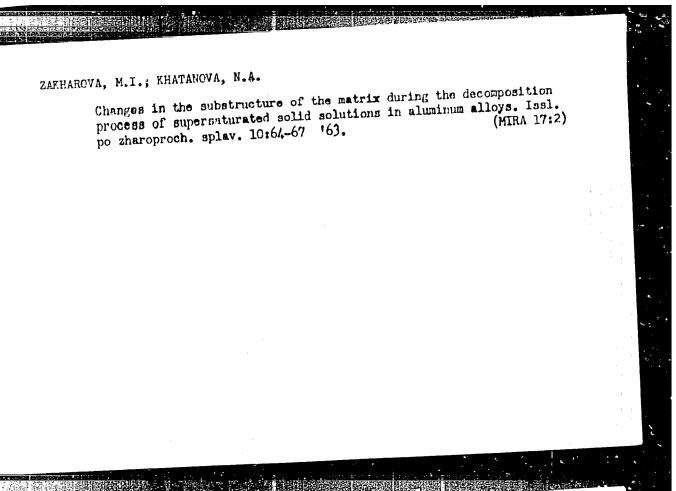
Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R00072191001

s/659/62/008/000/002/028

Structure of the matrix during the initial...

10% Zn alloy after natural aging for 7 months, and in steel containing 12% Mn and 1.2% after annealing for 5 sec. at 6700; electroning 12% Mn and 1.2% after annealing for 5 sec. at 6700; electroning 12% Mn and 1.2% after annealing for 5 sec. at 6700; electroning 12% Mn and 1.2% after annealing for 5 sec. at 6700; electronical etching shows that the nature of the microstructure remains annealing for 7 months, and in steel containing the sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 7 months, and in steel containing the sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 5 sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 5 sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 5 sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 5 sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 5 sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 5 sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 5 sec. at 6700; electronical etching shows that the nature of the microstructure remains an annealing for 5 sec. at 6700; electronical etching shows the following shows that the following shows the follow mains unchanged to a considerable depth within the alloy. As all three alloys mentioned have an f.c.c. lattice, the slip plane being (111), it is assumed that the appearance of two slip-band systems intersecting at 70°c is associated with nucleation on the (111) and (111) planes. There are 3 figures.



APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721910013-7"

5/0032/64/030/006/0721/0724

ACCESSION NR: AP4039253

AUTHORS: Zakharova, M. I.; Khatanova, N. A.

Investigation of the substructure of single crystals by the x ray focusing TITLE:

SOURCE: Zavodskaya laboratoriya, v. 30, no. 6, 1964, 721-724

TOPIC TAGS: crystal substructure, x ray focusing, microblock, macroblock, goniometric measurement, aluminum alloy, angular disorientation, polycrystalline specimen, metal annealing, metal tempering, microscope UMV 100

ABSTRACT: The authors used the method of A. Guinier and I. Tennevin (Acta Crystal, 2, 133, 1949) to study the disorientation of a specimen of alloy during thermal or mechanical treatment. They measured the angular disorientation of a block to an accuracy of 10 seconds. The specimens they used had cross sections of the order of

1-2 cm². The thickness was determined by the atomic number of the alloy-forming element. For Al this is 1-2 mm. Goniometric measurements were made on specimens obtained from originally polycrystalline blocks by sending the latter through gradient furnaces at a speed of 10 mm/sec. The results of experiments on a block Cord 1/2 element. For Al this is 1-2 mm. Goniometric measurements were made on specimens

CIA-RDP86-00513R000721910013-7" APPROVED FOR RELEASE: 09/17/2001

ACCESSION NR: AP4039253

of monocrystalline solid solution of 4% Cu in Al are given. The angular disorientation of the specimen tempered at 5500 was found to be 1°. After annealing at 2180 for 24 hours the value increased to 1°24;, after 3 days it was 2°20; and after 6 days it was 2°56. Orig. art. has: 3 figures and 4 formulas.

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 00

DATE AQ: 18Jun64

ENCL: 00

SUB CODE: MM

NO REF SOV: COO

OTHER: COL

Card 2/2

L 36560AMPROVED FOR RELEASE: 09/17/2001 CODE: CIA REPROSE 0005/2191001

ACC NR. APG015772

AUTHOR: Zakharova, M.I.; Mogarycheva, I.B.; Khatanova, N.A.

ORG: Physics Department, Moscow State University, im M.V. Lomonoscov (Fiziches Ly fakultet Moskovskogo gosudarstvennogo universiteta)

TITLE: Investigation of the initial stages of decomposition of the solid solution in Al-CurAg and Cu-Be-Ag alloys /Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 5, 1966, 808-812

TOPIC TAGS: aluminum base alloy, copper base alloy, solid solution, thermal decomposition, electron microscopy, electron diffraction, x ray diffraction

ABSTRACT: The changes in structure occurring incident to thermal-aging decomposition of the supersaturated solid solutions in Al + 3 % Cu + 7% Ag and Cu + 1.6% Be + 1.9% alloys (the percentages are by weight) were studied by electron microscopy, electron diffraction and x-ray diffraction (single crystals) techniques. Most of the report is devoted to the results obtained for the aluminum-base alloy. The decomposition of the aluminum-base alloy was studied at aging temperatures of 130 and 218°C. The initial stage of decomposition at 130° is the zone stage, which is most clearly evinced after two days of aging. The electron micrographs of the aged alloy disclose spherical zones (diameter about 60 Å) and lamellar Guinier-Preston zones (transverse dimensions of 100

Card 1/2

L 09008-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG/JH
ACC NR. AP6027785 (A) SOURCE CODE: UR/0126/66/022/001/0055/0057

AUTHOR: Khatanova, N. A.; Zakharova, M. I.

39

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosuniversitet)

TITLE: A study of the initial stages of phase transitions in an Al-Cu-Ag alloy

SOURCE: Fizika metallov i metallovedeniye, v. 22, no. 1, 1966, 55-57

TOPIC TAGS: electron microscope, alloy phase diagram, aluminum base alloy, solid solution / UEMV electron microscope

ABSTRACT: The aging of the supersaturated solid solution of Cu in Al involves the formation of lamellar Guinier-Preston (G. P.) zones during the pre-segregation stage; the aging of the solid solution of Ag in Al involves the formation of spherical G. P. zones. In this connection the autors investigate the process of the decomposition of an Al-3 wt.% Cu-7 wt.% Ag alloy by analyzing anomalous effects on the roentgenograms of immobile monocrystals and by performing an electronmicroscopic analysis of thin foils following their aging at 130 and 218°C. Findings: the investigated specimens contain both lamellar and spherical G. P. zones. Following 30 min of aging at 218°C the photographs made with the aid of an UEMV-100 electron

Card 1/3

UDC: 669.715:620.181.5:620.183.48:620.183.4

L 09008 PROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R00072191001

microscope reveal thin lamellae of the γ -phase and spherical zones. The lamellae of the γ -phase, which have a hexagonal structure, produce on the photographs a contrast similar to packing defects in face-centered crystals. The quenched ternary alloy Al-Cu-Ag is characterized by pile-ups of defects, which show up as black dots on the photographs (Fig. 1, a).

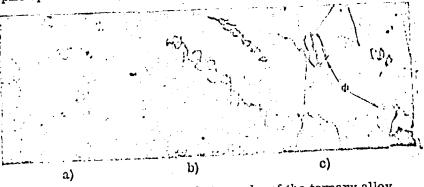


Fig. 1. Electron microphotographs of the ternary alloy (x 48,000): a - after quenching; b, c - after aging at 218°C for 30 min

T. 09008-67
ACC NR: AP6027785

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It is probable that these black points represent, as in Au, pile-ups of interstitial atoms and vacancies. During aging at 218°C the vacancies acquire mobility which leads to, on the one hand, the segregation of Θ - and γ -crystals and, on the other, the interaction between vacancies and dislocations. After aging at 218°C for 30 min the number of the pile-ups of interstitial atoms and vacancies in the form of black dots greatly decreases and there appear helicoids, dislocation loops (Fig. 1, b) and also Frank dislocations (Fig. 1, c). By contrast, after coids, dislocation loops (Fig. 1, b) and also Frank dislocation loops and helicoids. This quenching and aging at 130°C the Al-Cu-Ag alloy lacks dislocation loops and helicoids. This indicates that the mobility of vacancies at room temperature and at 130°C in this alloy is much lower than in the binary alloys Al-Cu and Al-Ag. Therefore, the processes of the diffusion of dissolved atoms in the ternary alloy are retarded, and it is this that leads to the expansion of the temperature range of existence of lamellar G. P. zones. Orig. art. has: 6 figures, 1 table.

SUB CODE: 11,20/ SUBM DATE: 30Jul65/ ORIG REF: 003/ OTH REF: 003

Cord 3/3 nst

KHATAROV, N. I.

Doc Geol-Min Sci - (diss) "Problems of endogenic processes in the light of experimental data." Moscow, 1961. 31 pp with diagrams; (Academy of Sciences USSR, Inst of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy); 250 copies; price not given; list of author's works on pp 29-31 (30 entries); (KL, 7-61 sup, 224)

KUCHINSKIY,I.N.; PYTEL', A.Ya.; ZISMAN, I.F.; GOLIGORSKIY, S.D.; CHEBANYUK, G.M.; ZALEVSKIY, R.O.; RYABINSKIY, V.S.; DARENKOV, A.F.; KHATAVNER, A.I.; SMELOVSKIY, V.P.; BALTER, M.A.

Abstracts. General problems in urology. Urinary bladder. Urologiia 28 no.5:87-95 / S-0*63 (MIRA 17:4)

MARKOVSKIY, F.T.; SELYAVIN, G.F.; KHATAYEVICH, R.M.

Conditions of electric power consumption in the power system of the Ukraine. Energ. 1 elektrotekh. prom. no.3:50-54 J1-5 62. (MIRA 18:11)

1. Institut teploenergetiki AN UkrSSR.

KHATCHENKO, N.V. Tumorous lesions of bones of the cranial arch. Zdrav. Belor. 5 no.4: (MIRA 12:7) 32-35 Ap 159..

1. Iz kliniki nervnykh bolezney Minskogo meditsinskogo instituta (zav.kafedroy - prof. M. A. Khazanov). (SKULL-TUMORS)

KHATCHENKO, N. V., Cand of Med Sci -- (diss) "Tumor and Tumorogenic Changes in Granial Bones," Minsk, 1959, 12 pp (Minsk State Medical Institute) (KL, 5-60, 130)

YURATSKAYA, Ye.G., kand.meditsinskikh nauk; KHATCHENKO, N.V., wrach; ALEKSANDROVSKAYA, K.F., vrach

Etiopathogenesis of chondrodystrophy. Dzrav. Belor. 6 no. 7:13-15 Je *60. (MIRA 13:8)

1. Iz kliniki nervnykh bolezney Minskogo meditsinskogo instituta (zaveduyushchiy kafedry - professor M.A. Khazanov).

(RICKETS, FETAI)

YURATSKAIA, Ye.G.; KHATCHENKO, N.V.; ALEKSANDROVSKAYA, K.F.

Etiology and pathogenesis of multiple cartilagenous exostoses.

Khim. med. 38 no.5:134-137 My '60.

(EXOSTOS)

(EXOSTOS)

MEL'YANKOV, S.Ya., assistent; KHATCHENKO, N.V., kand.med.nauk

Lumboscaral radiculities of tuberculous origin. Zdrav. Belor.
6 no. 10:35 0 '60. (MIRA 13:10)

1. Iz kliniki nervnykh bolezney Minskogo meditsinskogo instituta (zav.kafedroy - prof.M.A. Khazanov).

(NERVES, SPINAL—DISEASES) (TUBERCULOSIS)

MEL'YANKOV, S.Ya.; KHATCHENKO, N.V.

Disorders of the muscular tonus of the gastrointestinal tract in myotonia. Zhur. nevr. i psikh. 65 no.8:1150-1151 '65.

(MIRA 18:8)

1. Klinika nervnykh bolezney (zaveduyushchiy - prof. N.S. Misyuk) Minskogo meditsinskogo instituta.

KODENTSOV, A.Ya.; GUBANOV, M.S.; YES'KOV, L.I.; KRACHENTSEV, V.I.;

KHATCHENOK, G.K.

Working part of the grab on a noncontinuous loader. Gpr. zhur
no.4:75 Ap '63.

(MINA 16:4)

(Loading and unloading—Technological innovations)

TELEUGALIYEV, Tayman Musegaliyevich; ARZYMBETOV, S., red.; KHATELOV, G., red.

[Desinfection of livestock buildings] Maldyn kora-zhailaryn derileu. Almaty, Kainar, 1965. 62 p. [In Kazakhstan] (MIRA 19:1)

EHATENESYAN, T.A.; CHIRLLADZE, E.S.

Phenology of the malarial mosquito Anopheles bifurcatus L. in Adzhar lowlands [with summary in English]. Med.paras. 1 paras. bolezn. 23 no.1:18-20 Ja-F '59. (MIRA 12:3)

1. Iz parazitologicheskogo otdela Respublikanskoy sanitarno-epidemiologicheskoy stantsii Ministerstva zdravookhraneniya Adzharskoy ASSR (glavnyy vrach S.D. Avalishvili). (MOSQUITOES,

Anopheles bifurcatus (Rus))

KHATENESYAN, T.A.

Survival of Anopheles bifurcatus mosquitoes to the epidemiologically dangerous age in Batumik District Adshar Autonomous Republic. Hed. paras.i paras.bol. 37 no.5:560-562 S-0 '59. (MIRA 13:4)

1. Iz parazitelogicheskogo otdela Respublikanskoy sanitarno-epidemiologicheskoy stantsii Kinisterstva sdravookhraneniya Adzharskoy ASSR (glavnyy vrach S.D. Avalishvili).

(BATHMI DISTRICT--MOSCUITOES)

(BATUMI DISTRICT-MOSQUITOES) (ANOPHELAS)

Progressiviyye normy.
Tekatil. Prom-st', 1'4'; No. 6, s. 5-8.

So: Lotoris' Zhurnal'nyih Statey, No. 30, Moskva, 1948

KHATENEVER, I. M.

Khatenever, I. M. -- "Methods of Increasing the Effectiveness of the Operation of a Combing Machine in the Treatment of Machine-Picked and Low-Quality Cotton." Min Higher Education USSR, Moscow Textile Inst. Moscow, 1956. (Disseration For the Degree of Candidate in Technical Sciences).

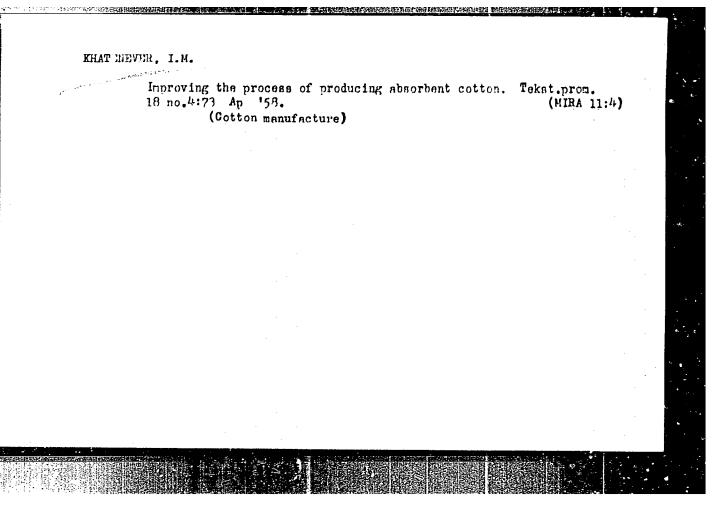
So: Knizhnaya Letopis', No. 11, 1956, pp 103-114

Role of grate bars in the quality of the carded sliver. Tekst. prom. 16 no.8:51 Ag '56. (MLRA 9:10)

(Carding machines)

KHATENEVER, I.M. Determining the effect of lapunevenness on the unevenness of the card sliver. Tekst. prom. 18 no.2:28-31 F '58. (MIRA 13:3)

(Cotton carding)



KHATENEVER, I. M., Cand of Sciences --- (diss) "Means of Increasing the Effectiveness of Operation of a Carding Machine During the Processing of Cotson of the Machine Assembly and the Lower Sorters and the Establishment of a Relationship of Irregularities in the Carding Belt to Non-Uniformities in the Cloth,"

Moscow, 1959, 20 pp (Ministry of Higher and Secondary Specialist Education RSFSR. Moscow Textile Institute) (KL, 6-60,123)

KHATENEVER, I.M.

Investigating the performance of flats with all-metal saw blade. Izv. vys. ucheb. zav.; tekh.tekst. prom. no.5:78-81 '59 (MIRA 13:3)

1. Moskovskiy tekstil'nyy institut. (Carding machines)

Modernization of the ChVM-600 carding machine for the manufacture of absorbent and padding cotton. Tekst.prom. 19 no.12:57-59 D '59. (MIRA 13:3) (Carding machines) (Cotton carding)

Increasing the operative efficiency of carding machines.
Tekst. prom. 20 no. 12:65-68 D '60. (MIRA 13:12)

(Carding machines)

KHATENEVER, I.M., kand.tekhn.nauk

Ways of improving the quality of raw materials for the manufacture of wadding. Tekst.prom. 21 no.5:15-16 My *61. (MIRA 15:1) (Cotton manufacture)

KHATENEVER, I.M., kand.tekhn.nauk

For an advanced technology in batting production. Teskt.prom. 23 no.1:79-81 Ja 163. (MIRA 16:2)

l. Starshiy inzhener TSentral'noy nauchno-issletlavatel'skoy laboratorii khlopka i shersti Moskovskogo gorodskogo soveta narodnogo khozyaystva.

(Nonwoven fabrics)

KHATENEVER, I.M., kand. tekhn. nauk

For a maximum utilization of the capacity of the AchV-V carding and knitting unit. Tekst. prom. 23 no.9:23-25 S '63. (MIRA 16:10)

1. Starshiy inzh. TSentral'noy nauchno-issledovatel'skoy laboratorii (TsNIL) khlopka i shersti Moskovskogo gorodskogo soveta narodnogo khozyaystva.

(Textile machinery)

KHATENEVER, I.M., kand. tekhn. nauk

Widen the assortment of cotton wadding interlining. Tekst. prom. 24 no.8:54-56 Ag '64. (MIRA 17:10)

1. Starshiy inzh. TSentral'noy nauchno-issledovatel'skoy laboratorii khlopka i shersti Soveta narodnogo khozyaystva Moskovskogo gorodskogo ekonomicheskogo rayona.

KHATENEVER, I.M., kand. tekhn. nauk

Manufacture of half-woven interlining on AChV-V machine units. Tekst. prom. 25 no.4:42-45 Ap '65. (MIRA 18:5)

1. Starshiy inzh. TSentral'noy nauchno-issledovatel'skoy laboratorii khlopka i shersti Soveta narodnogo khozyaystva Moskovskogo gorodskogo ekonomicheskogo rayona.

KHATENEVER, M.L.

Fate of BCG bacteria following epidermal administration of vaccine to animals. Zhur.mikrobiol.epid. i immun. no.8:96-102 Ag '55.

(MLRA 8:11)

1. Iz otdela spetsificheskoy profilaktiki i terapii tuberkulesa (zav.--prof. A.I.Togunova) Instituta epidemiologii i mikrobiologii imeni N.F.Gamalei AMN SSSR (dir.--prof. V.D.Timakov) (BCG VACCINATION, experimental, epicutaneous admin.)

BCG inoculated intracutaneously into guinea pigs as a rule invade the animal. The concn. of BCG reaches a max. in adjacent lymphatic glands during the first 2-3 weeks and then decreases after 2-3 months. Distribution-time curves of the bacteria differ with various prep. of liquid and dry vaccines. During the second week after vaccination the bacteria can be found in more distant lymph glands but in relatively smaller amounts. They have also been found in bone marrow. blood, and kidneys. After 9 months, BCG bacteria are rarely demonstrated. The most reasonable concn. in the liquid vaccine appears to be 20 mg./ml.

CIA-RDP86-00513R000721910013-7 CS-CS 表示以上的证据是从中间还有法律的是不是是否是 KHAZKWIEC 162. LESHCHINSKAYA, Ye.N.; KHATKNEVER, M.L. Studying the biological properties of BCG cultures grown on a VKL medium with zinc. Zhur. mikrobiol. epid. i immun 28 no.2:135-136 (MIRA 10:4) 1. Institut imeni N.F. Gamalei AMN SSSR. (BCG) (BACTERIOLOGY -- CULTURES AND CULTURE MEDIA)

KHATENEVER M.L.

TOGUNOVA, A.I.; KULIKOVA, M.F.; KHATENEVER, M.L.

Characteristics of substrains of BCG. Zhur.mikrobiol.epid. 1 immun. 29 no.3:3-8 Mr '58. (MIRA 11:4)

1. In Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR. (MYCOBACTER IUM TUBERCULOS IS BOVIS, BCG, sub-strains (Rus)

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STEPANCHENOK, G.I.; TOGUNOVA, A.I.; KHATEREVER, M.L.; KULIKOVA, M.F.

Bifect of ultrasound on Mycobacterium tuberculosis. Zhur.
mikrobiol.epid. i immun. 30 no.5:90-95 My '59. (MIRA 12:9)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei
AMN SSSR.

(MYCOBACTERIUM TUBERCULOSIS, eff. of radiations.
ultrasonics (Rus))
(ULTRASONICS, eff.
on M. tuberc. (Rus))
```

TOGUNOVA, A.I., KHATENEVER, M.L., ZHULINA, L.V.

Immunobiological properties of antigenic complexes from Mycobacterium tuberculosis. Zhur. mikrobiol., epid. i immun. 32 ne.9:116-120 S '61. (MIM 15:2)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR. (MYCOHACTERIUM TUBERCULOSIS)
(ULTRASONIC WAVES_PHYSIOLOGICAL EFFECT) (IMMUNOLOGY)

TOGUNOVA, A.I., prof.; KHATENEVER, M.L.

White mice as a model for the study of immunogenic activities of vaccinal strains. Probl.tub. 39 no.3:88-93 '61. (MIRA 14:5)

1. Iz Instituta epidemiologii i mikrobiologii imeni akad. N.F. Gamalei (dir. - prof. S.N. Muromtsev [deceased]) AMN SSSR. (BCG VACCINATION) (MICE AS LABORATORY ANIMALS)

TOGUNOVA, A. I., prof.; ZHULINA, L. V., kand. med. nauk; KHATENEVER, M. L.

Antigens and "crude extracts" of mycobacterium tuberculosis. Probl. tub. 40 no.4:71-76 '62. (MIRA 15:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni N. F. Gamalei AMN SSSR (dir. - prof. O. V. Baroyan)

(MYCOBACTERIUM TUBERCULOSIS)
(ANTIGENS AND ANTIBODIES)

KHATENEVER, M.L.

Simultaneous vaccination against tuberculosis and tularemia under experimental conditions. Zhur. mikrobiol., epid. i imm. 41 no. 2: 29-34 F '64. (MIRA 17:9)

KHATETOVSKIY, G.I.; YUSHKEVICH, Ye.V.

Assembly of turbine units and auxiliar, equipment of the machine hall. Energ.strol. no.24:60-64 '61. (MIRA 15:4)

1. Starshiy proizvoditel' rabot montazhnogo uchastka tresta "Sevzapenergomontazh" (for Khatetovskiy). 2. Proizvoditel' rabot montazhnogo uchastka tresta "Sevzapenergomontazh" (for Yushkevich).

(Narva region--Electric power plants--Design and construction)
(Steam turbines)

L 14009-66 ENT(1)/ENT(m)/EWP(j)/EWP(t)/EWP(b) LIP(c) ACC NR. AP6003501 SOURCE CODE: UR /0364 /66 /001 /001 /0107 /0109 AUTHOR: Yeligulashvili, I. A.: Nakashidze, G. A.; Rozenshteyn, L. D.; Khatiashvili, A. A. ORG: Institute of Semiconductors, Academy of Sciences SSSR, Leningrad (Institut poluprovodníkov Akademii nauk SSSR); Institute of Cybernetics, Academy of Sciences GruzSSR (Institut kibernetiki Akademii nauk GruzSSR) 21, 14,55 TITLE: Conductivity nonlinearity effects due to charge carrier injections in organic semiconductors (44.5 SOURCE: Elektrokhimiya, v. 2, no. 1, 1966, 107-109 TOPIC TAGS: organic semiconductor, anthracene, volt ampere characteristic, cuprous iodide, aluminum, contact effect ABSTRACT: Research aimed at studying conduction processes associated with charge-carrier injection into organic semiconductors has been started. It is noted that lately a great deal of attention has been paid to the problem of obtaining nonlinear and nonsymmetrical voltampere characteristics for organic semiconductors. To this end an organic semiconductor-electrode contact was constructed by applying 2 Cul electrodes, or a Cul and an aluminum electrode by vacuum Card 1/2 UDC: 621.315.592:547

L 14009-66 ACC NR: AP6003501 sputtering across single crystals of anthracene. It was found that a nonlinear volt-ampere characteristic is obtained, $i\sim V^n$, where n = 8-10, regardless of the nature of the second electrode; the characteristic is symmetrical if the electrodes are both of CuI, and nonsymmetrical if one is CuI and the other Al. At the highest voltage used (~500 v), the rectification factor attained 3-5 orders [sic]. It was shown that conductivity is determined by the injection of holes from the CuI electrode into the anthracene crystal, and that injection is increased by illumination of the Cul electrode with monochromatic light of the appropriate wavelength. Orig. art. has: 3 figures. SUB CODE: 20/ SUBH DATE: 11May65/ ORIG REF: 001/ OTH REF: 006 ATD PRESS: 4/96 Card 2/2 AC

Country : USSR

Category: Cultivated Plants. Fruits. Berries.

.bs Jour: RZhBiol., No 22, 1958, No 100458

.uthor : Khatlashvili

Inst : Goorgian Agr. Inst.

Title : Determination of the Time of Blossoming and of

the Fertilizing bility of Pollen in Local Pear

Varieties in the Conditions of Mukhran'.

Orig Pub: Nauchn. tr. stud Gruz. s.-kh. in-t, 1957, 6-7,

57-63

Abstract: Cited are data of the 1952-1953 observations

on the opening of the buds, the beginning and duration of blossoming, and also the results of experiments in the study of the fertilizing

Card : 1/4

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Country OVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721910013 Category: Cultivated Plants. Fruits. Berries.

bs Jour: RZhBiol., No 22, 1958, No 100458

ability of the pollon of different pear varieties in the conditions of Mukhrani (Georgia). From the local pear varieties, Gulabi, Knechechuri, Kalos Mskhali, Panta Mskhali, Gvordtsiteli and Borbala Mskhali were studied; and from the varieties of other regions - Vil'yams, Beurro Bose and Lesnaya krasavitsa. With the exception of Gverdtsiteli and Barbala mskhali, the local pear varieties began to blosson 5-8 earlier than those from other regions. The earliest blossoming was recorded in Panta Mskhali variety and the latest - in Gvordtsiteli and Borbala

Card : 2/4

KUTATELINZE, K.S.; ZENGENINZE, Ye.N.; KHATIASHVILI, E.G.

Lightweight refractories from screenings and ashes of liptebielith shale. Ogneupery 18 no.8:361-367 *53. (MIRA 11:10)

1. Institut metalla gernoge dela AN GruzSSR.
(Refractory materials) (Shale)

MCHEDLOV-PETROSYAN, O.M.; GCGICHEVA, Kh.I.; KHATIASHVILI, E.G.; MCHAKIDZE, G.K.

Lateratory study of the effect of vacuum compression on certain properties of forsterite refractories. Trudy Inst. prikl. khim. i elektrokhim. AN Gruz. SSR no. 1:183-186 '60. (NIRA 14:2) (Forsterite)

26037 \$/137/61/000/007/002/072 A060/A101

152610

AUTHORS: Mchedlov-Petrosyan, O. M.; Gogicheva, Kh. I.; Khatiashvili, E. G.;

Norakidze, G. K.

TITLE: Laboratory investigation of the effect of vacuum extrusion upon

some properties of forsterite refractories

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 7, 1961, 4, abstract 7B22

("Tr. In-ta prikl. khimii i elektrokhimii. AN GruzSSR", 1960. v. 1.

183-186)

TEXT: It is established that the effect of vacuum upon the properties of objects largely depends on the grain composition of the mixture, the extrusion pressure and the baking temperature. At low baking temperatures extrusion under vacuum does not change the porosity of objects. In the presence of a great amount of coarse fractions in the granular structure vacuum does not show a noticeable effect on the porosity. An increase in extrusion pressure at the same vacuum and almost the same granular composition lowers the apparent porosity. Vacuum shows the greatest effect with medium grain size and a not very low (not below 1,600 °C) baking temperature. In these cases the decrease in the apparent

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Laboratory investigation of the effect ...

porosity constitutes 5-20 percent and attains values of the order of 4 percent. The addition of a considerable amount of crude serpentine while using vacuum yields good results. The effect of extrusion in vacuum on thermal stability is small. Slag stability is almost always better for vacuum specimens. A diagram of a vacuum extrusion set-up is given and the method of testing is described.

V. Oparysheva

[Abstracter's note: Complete translation]

Card 2/2

KHATIASHVILI 18 PHASE I BOOK EXPLOSTATION COV/2277 Akademiya nauk Gruzinskoy SSR. Institut prikladnoy khimii i elektrotekhniki. Trudy, t. 1 (Academy of Sciences of the Georgian SSR. Institute of Applied Chemistry and Electrochemistry, Transactions) v.1. Tillis, 1950. 186 p. Errata slip inserted. Personalities cannot be established in Georgian writing. PURPOSE: This collection of articles is intended for mineralogists; metallurgists, and mining specialists. COVERAGE: The collection contains articles concerning recent research on methods for treating antimony- and arsenic-bearing ores and carbonate ores of manganese. Research on the electrochemical properties of certain ores and their electrodeposition is also discussed. The collection includes Card 1/5-

18

Institute of Applied Chemistry (Cont.)

SOV/5277

studies on the corrosion and electrical properties of certain alleys, studies of the properties of certain cements and coment components, and studies of certain phases of the cement production process. The following personalities are mentioned: Profession N. A. Figurovikiy and his scientific assistant T. B. Gavrilova (p. 110, bottom); R. I. Agladae, Academician, AN GSSR (AS Georgian Schl.) (p. 150); S. D. Dangaridae and N. I. Lagidze (p. 171). The articles which are written in Georgian are followed by a resume in Russian. References accompany each article.

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On the deformation of a filindrical

I. S. Sokolnikoff.

composite beam with a loaded lateral surface. Soob-Keniya Akad. Nauk Gruzin, SSR 13, 335-341 (1952): The deformation of a homogeneous elastic beam when of its bases exed and the other is free and when tracon the late of success is independent of the coordinate Mathematical Reviews thing the axis as the same was solved by J. H. Michell and Vol. 15 No. 1 Alma i [2 ve, Mathematical theory of elas-Jan. 1954 ticity, 4th ed., Camprose, 1927, pp. 343-359]. The author Mechanics extends the solution of this problem to a compound beam whose cross-section consists of m regions S, bounded by non-intersecting contours L_i contained within the region S_0 bounded by Lo. The contour Lo corresponds to the trace of the lateral surface. The elastic media filling the regions S_i ($i = 0, 1, 2, \dots, m$), may have distinct Young's moduli E_i , but the Poisson ratios are supposed to be the same throughout the cross-section. The components of the stress tensor are assumed to have special forms involving four unknown functions; three of these can be determined by solving certain two-dimensional Neumann problems in Laplace's equation and the fourth

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given in terms of these functions.

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by solving the standard boundary-value problem in the biharmonic equation. The expressions for displacements are

KHATIASHVILI, G.M.

Deformation of a composite bundle of cylindrical bars subjected to lateral stresses which are varying along the generatrix of the cylinder. Soob.AN Grus.SSR 14 no.4:197-204 153. (MLRA 7:3)

 Tbilisskiy institut inshenreov sheleznodorozhnogo transporta im. V.I.Lenina. (Deformations (Mechanics)) (Elastic rods and wires)

KHATIASHVILI, G. H.

"Elastic Equivalence of a Cylindrical Composite Seam with a Loaded Lateral Surface." Cand Phys-Math Sci, Tbilisi Hathematics Instiment A. M. Razmadze, Acad Sci Georgian SSR, Tbilisi, 1984. (KL, No 7, Feb 55)

S0: Dam. No 631, 26 aug 55 - Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions (14)

KHATIASHVILI.G.M.

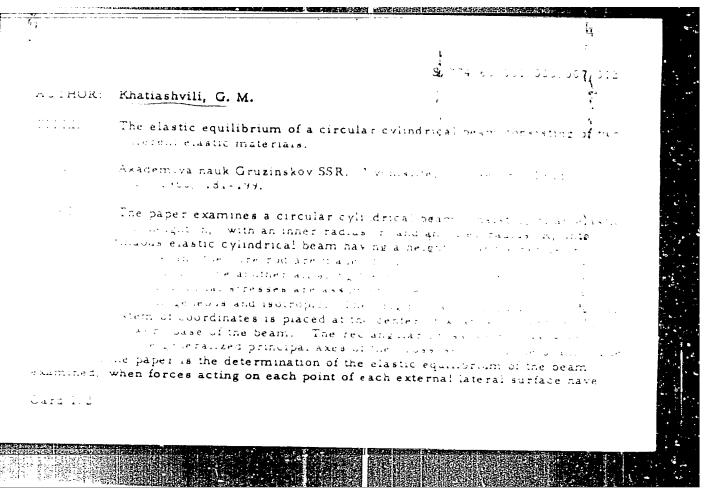
Elastic equilibrium of a composite cylindrical bar with a lateral supporting surface in an instance of varying Poisson's ratio. Socb. AN Gruz.SSR 16 no.1:19-25 '55. (MIRA 8:12)

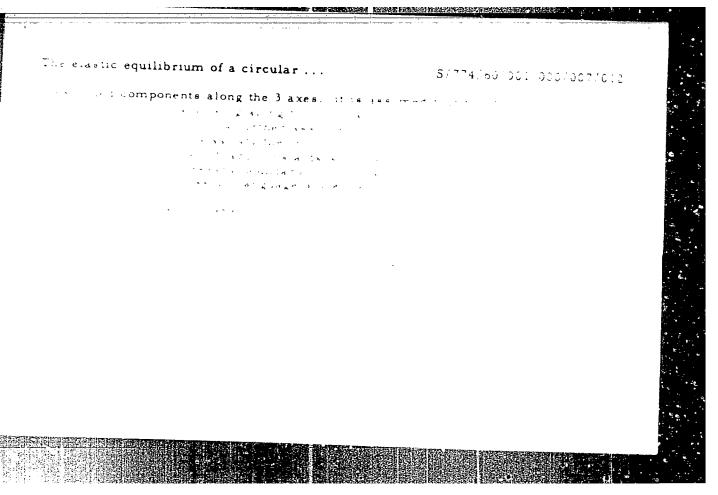
1. Tbilisskiy institut inzhenerov sheleznodoroshnogo transporta imeni V.I.Lenina. Predstavleno akademikom N.I.Muskhelishvili (Elastic rods and wires)

KHATIASHVILI, G.M.

Elastic equilibrium of a compound cylindric bar subjected to a lateral load that changes along the generatrix of the cylinder. Soob. AN Gruz.SSR 18 no.4:393-400 Ap *57. (MIRA 10:7)

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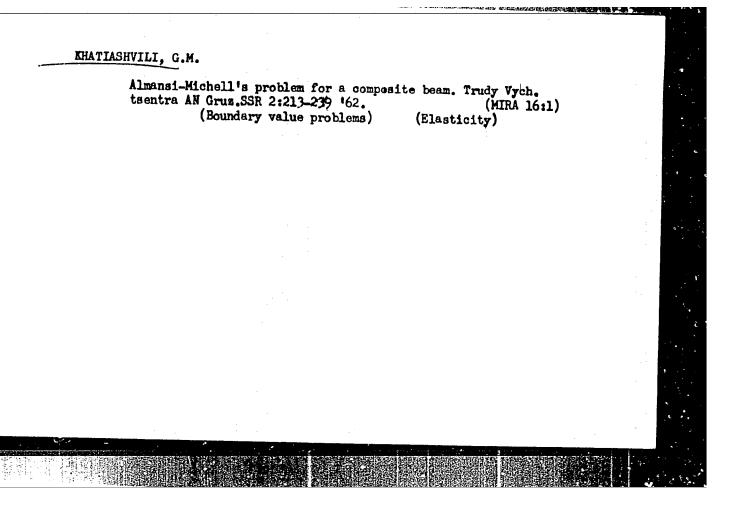
- Vsesoyuznoye soveshchaniye po vychislitel'noy matematike i primeneniyu sredstv vychislitel'noy tekhniki, Baku, 1958.
- Trudy (Transactions of the All-Union Conference on Computer Mathematics and Applications of Computers) Paku, Izd-vo AN Azerbaydzhanskoy SSR, 1961. 254 p. 500 copies printed.
- Sponsoring Agency: Akademiya nauk Azerbaydzhanskoy SSR. Vychia-
- Eds.: A.A. Dorodnitsyn, S.A. Aleskerov, and K.P. Shirinov; Ed. of Publishing House: A. Til'man; Tech. Ed.: T. Ismailov.
- PURPOSE: The book is intended for mathematicians and other specialists interested in computer theory and uses for computers.
- COVERAGE: The book contains the texts of 24 papers presented at the All-Union Conference on Computer Mathematics and Applications of Computers held in Baku, 3-8 Feb 1958. The "Resolution"

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ACCESSION NR: AR4031080

s/0044/64/000/002/B108/B108

SOURCE: Referativny*y zhurnal. Matematika, Abs. 2B431

AUTHOR: Khatiashvili, G. M.

TITLE: The Al'mansa-Mitchel' problem for a compound anisotropic cylindrical

beam

CITED SOURCE: Tr. Vy*chisl. tsentra. AN GruzSSR, v. 3, 1962(1963), 161-184

TOPIC TAGS: Al'mansa-Mitchel' problem, compound anisotropic cylindrical beam, boundary value problem, second order equation, fourth order equation, contact surface stress condition

TRANSLATION: The method set forth in the previous article (abs 28430) for a homogeneous anisotropic beam, affected by arbitrary forces applied to the lateral surface and not changing along the generatrix, is generalized to the case of a compound beam in the form of a cylinder or prism with longitudinal cylindrical cavities, filled with a different anisotropic material; the beam is affected along its external lateral surface by forces which do not change along the

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ACCESSION NR: AR4031080

generatrix. As in the case of a homogeneous beam, the author reduces the problem to four boundary value problems for the four functions $f_j(x, y)$ (j = 1, 2, 3, 4) satisfying 2nd order equations, and for the one function $\frac{1}{2}$ (x, y) satisfying a 4th order equation, but in this case, in addition to the conditions on the outer surfaces, stress conditions on the contact surfaces must also be fulfilled. Much attention is paid to a rigorous mathematical proof of this method. S. Lekhnitskiy

DATE ACQ: 19Mar64

SUB CODE: PH

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KHATIASHVILI, G.M.

Elastic equilibrium of a sectional orthotropic cylindrical beam with a loaded lateral surface. Trudy Mat. inst. AN Gruz. SSR 28:185-207 '62. (MIRA 16:8)

(Beams and girders) (Elasticity)

KHATIASHVILI, G.M.

Almansi problem for a homogeneous orthotropic cylinder. Aplikace mat. 8 no.4:231-260 *63.

1. Vychislitel'nyy Tsentr Akademii Nauk Gruzinskoy SSR, Akurskaya 8 , gorod Tbilisi.

KHATIASHVILI, G.M.

Almansi's problem for a sectional orthotropic cylindrical body. Trudy Mat. inst. AN Gruz. SSR 29:245-259 '63. (MIRA 17:12)

St. Venant's problems for sectional orthotropic bodies approaching prismetic ones. Trudy Mat. inst. AN Gruz. SCR 29:261-269 163.

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KHATIASHVILI, G.M.

Problem of the flexure by a transverse force of sectional orthotropic bodies close to prismatic ones. Soob. AN Gruz. (MIRA 17:9)

1. Vychislitel'nyy tsentr AN GruzSSR. Predstavleno akademikom N.P.Vekua.

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KHATIASHVILI, G.M.

Almensi's problem for a sentional anisotropic cylindrical body.
Truey Vych. tsentr. AN Gruz.SSR 4:29-42 *64 (MIRA 17:6)

Almansi's problem for a homogeneous anisotropic, sylindrical body. Ibid.:43-70.

St. Venan's problems for sectional anisotropic nearly prismatic bodies. Ibid. 2/1-90